

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference GT-18740-PCT	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/KR03/00072	International filing date (<i>day/month/year</i>) 14 JANUARY 2003 (14.01.2003)	(Earliest) Priority Date (<i>day/month/year</i>) 14 JANUARY 2002 (14.01.2002)
Applicant YOON, Dong-Weon		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawing** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER**IPC7 H04L 27/34**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H04B, H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
KR, JP IPC7 aboveElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
ESPACENET, IEEE "PHASE", "AMPLITUDE", "MODULATION", "DEMODULATION", "CONTINUOUS"**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,767,739(Deutsche ITT Industries GmbH) 16, June 1998, See entire document	1-19
A	US 5,081,647(American Telephone & Telegraph Company) 14, January 1992, See entire document	1-19
A	US 5,151,925(U.S. Philips Corp) 29 September 1992, See entire document	1-19
A	US 5,812,604(Scientific-Atlanta, Inc.,) 22, September, 1998, See entire document	1-19
A	US 5,692,013(Hitachi Americ, Ltd.,) 25, November, 1997, See entire document	1-19
A	US 5,966,412(Thomson Consumer Electronics, Inc.,) 12, October, 1999, See entire document	1-19
A	US 5,381,450(Hitachi America, Ltd.,) 10, January, 1995, See entire document	1-19
A	US 5,659,574(Omnipoint Corporation) 19, August, 1997, See entire document	1-19
A	US 5,495,510(Alcatel Telspace) 27, February, 1996, See entire document	1-19
A	US 5,832,043(Motorola, Inc.,) 03, November, 1998, See entire document	1-19

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

28 APRIL 2003 (28.04.2003)

Date of mailing of the international search report

29 APRIL 2003 (29.04.2003)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,125,148(Telefonaktiebolaget LM Ericsson) 26,September,2000, See entire document	1-19
A	US 6,249,179(Atmel Corporation) 19, January,2001, See entire document	1-19
A	US 5,523,726(Westinghouse Electric Corporation) 04, June, 1996, See entire document	1-19
A	US 5,444,415(Texas Instrument Incorporated) 22,August,1995, See entire document	1-19

특 허 협 력 조 약
(PATENT COOPERATION TREATY)

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PCT

국제조사보고서 또는 국제조사보고서
부작성 선언서 송부 통지서

(PCT 규칙 44.1)

발송일
(일/월/년)

30 APRIL 2003 (30.04.2003)

출원인 또는 대리인 서류참조기호
GT-18740-PCT

이후의 절차에 대하여는 아래 1. 및 4. 참조

국제출원번호
PCT/KR03/00072

국제출원일
(일/월/년)

14 JANUARY 2003 (14.01.2003)

출원인

YOON, Dong-Weon

1. ☒ 국제보고서가 작성되어 이를 송부함을 출원인에게 통지합니다.
조약 제19조의 규정에 의한 보정서 및 설명서의 제출:
희망하는 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다.(조약규칙 46):
기간 보정서 제출기간은 통상 국제조사보고서 송부일부터 2월.

제출처 The international Bureau of WIPO
34, chemin des Colmbetts
1211 Geneva 20, Switzerland
Faxcimile No. : (41-22) 740 14 35

보다 자세한 지침에 대하여는 첨부되는 용지에 기재된 설명을 참조.

2. ☐ 국제조사보고서가 작성되지 아니할 것이며 조약 제17조(2)(a)의 규정에 의한 선언서가 송부됨을 출원인에게 통지합니다.
3. ☐ 조약규칙 40.2의 규정에 의한 추가수수료 납부에 대한 이의신청과 관련하여 아래 사항을 출원인에게 통지합니다.
- ☐ 이의신청 및 이의신청에 대한 결정 통지서를 출원인이 제출한 이의신청 및 이의신청에 대한 결정 통지서의 지정관청에의 송부 신청서와 함께 국제사무국에 송부하였습니다.
- ☐ 이의신청에 대한 결정이 아직 이루어지지 않았습니다; 결정이 이루어지는 대로 출원인에게 통지할 것입니다.

4. 주의사항

우선일부 18월 직후 국제사무국은 국제출원을 공개합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 경우에는 출원인은 국제공개의 기술적 준비가 완료되기 전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3의 규정에 의한 국제출원 취하서 또는 우선권주장 취하서를 국제사무국에 제출하여야 합니다.

일부 지정관청에 대하여는 출원인이 우선일부 30월까지 (일부관청에 대하여는 더 늦을 수도 있음) 국내단계의 개시를 연기하고자 하는 경우에는 우선일부 19월 이내에 국제예비심사를 청구하여야 합니다; 그렇지 않은 경우 출원인은 우선일부 20월 이내에 당해 지정관청에 대한 국내단계의 개시를 위한 규정된 절차를 밟아야 합니다.

다른 지정관청에 대하여는, 우선일부 19월 이내에 국제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도 있음)의 기간이 적용될 것입니다.

서식 PCT/IB/301의 부속서류를 참조하기 바라며, 각 특허청마다의 적용기간에 대한 구체적인 사항은 PCT출원인 안내 제2권 국내단계 및 WIPO 인터넷 사이트를 참조하시기 바랍니다.

ISA/KR의 명칭 및 우편주소



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팩스 번호 82-42-472-7140

특허청장

전화번호 82-42-481-5208

